

REMARKS

The present amendment is in response to the Official Action dated May 6, 2003, wherein the Examiner rejected pending claims 1, 3, 4, and 6, as being anticipated by Tay et al., US Patent No. 5,563,615, and rejected pending claims 2 and 8, as being unpatentable over Tay in view of applicant's description. The Examiner has further objected to informalities of a clerical nature in claim 7.

In responding to the applicants' argument raised in the previous response relative to claims 1 and 3, the Examiner attempts to justify the use of the same helical antenna 12 from Tay et al., '615, as making known two distinctly claimed elements, namely one of the first and second elements of the multi-band antenna, as well as the grounded helical antenna, by suggesting that their independence is not a limitation found in the claim. The applicants would respectfully disagree. Contrary to the Examiner's assertion, the independence of the corresponding elements is inherent in the claims. The grounded helical antenna can not be said to surround the multi-band antenna, if the grounded helical antenna is also part of the multi-band antenna as suggested by the Examiner. In other words, the relationship of the elements as provided in claims 1 and 3 precludes the Examiner's attempted interpretation. Still further, signal feed portion 34, either separately, or in combination with helix 11, is not equivalent to a multi-band antenna including first and second elements having different resonant frequencies, which is then surrounded by grounded helical coil 12.

Consequently, contrary to the Examiner's assertion Tay et al., '615, fails to make known claims 1 and 3 as suggested by the Examiner. The same is true relative to claim 6, with respect to the inner antenna and the grounded helical antenna.

To the extent that claims 2, 4 and 8 are dependent upon claims 1, 3 and 6, for at least the same reasons noted above, they are similarly not made known or obvious by Tay et al., '615.

The applicants note with appreciation, the indication by the Examiner that claims 5, 7, 10-16 contains allowable subject matter.

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The claims, as presently amended, are allowable over the prior art of record, for the reasons noted above. Allowance of the application is respectfully requested.

Respectfully submitted,
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